WHAT IS CLAIMED IS:

1. A method for concealing the effect of missing speech information on generated speech, said speech information having been compressed and transmitted in packets to a receiver which does not receive one or more of such packets, the method comprising the steps of:

forming a speech signal based on received packets representing speech information;

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in response to a determination that a packet is not available at the receiver to form the speech signal, synthesizing a portion of the speech signal corresponding to the unavailable packet using a portion of the previously formed speech signal, wherein the number of pitch periods of the previously formed portion used in such synthesis is greater for speech of a fundamental frequency above a threshold than for speech of a fundamental frequency below the threshold.